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T Bickmore

E Kandogan

G Banavar

E Greisen

B Schilit

Information flow based event distribution middleware

G Banavar, M Kaplan, K Shaw, RE Strom, DC Sturman, ... - Electronic Commerce and Web-based Applications/Middleware, ..., 1999 - ieeexplore.ieee.org

... Tagged transforms can be stored in a **table** for lookup ... 4.2 Expanding State to Event Streams ... identical rules discussed in the illustration of **collapse** in Section ...

Cited by 46 - Related Articles - Web Search

... operations for perspective transformations on relational **tables** using pivot and unpivot **columns** - group of 3 »

G Graefe, J Alger - US Patent 6,298,342, 2001 - Google Patents

... internal operation for splitting each item of a **table** update having ... delete item" and an "insert item" which interchanges certain **row** and **column** values, and ...

Cited by 20 - Related Articles - Web Search

Method, computer program product, and system for creating and displaying a categorization **table** - group of 3 »

DA Shakib, WH Rockenbeck, ML Benson, MM Joshi - US Patent 5,752,025, 1998 - Google Patents

... will be unique and the **row** will also ... particularview ofthe categorizatontable.Aplurality ofuser **columns** in the ... is located in relation to the entire **table**. This ...

Cited by 9 - Related Articles - Web Search

Implementation of Conditional Branching in Computerized Self-Administered Questionnaires - group of 4 »

KL Norman - Laboratory for Automation Psychology, University of Maryland ..., 2001 - hcil.cs.umd.edu

... two parameters of tabular surveys: the number of **rows** (elements) and the number of **columns** (questions ... **Table 1** lists a number of these designs along with an ...

Cited by 1 - Related Articles - View as HTML - Web Search

A Tribute to J. Bertin's Graphical Data Analysis - group of 3 »

A de Falguerolles, F Fredrich, G Sawitzki - SoftStat, 1997 - statlab.uni-heidelberg.de

... by a correspondence analysis be used for a ranking of **rows** and **columns** in a ... analyse more complex data sets than a two way contingency **table**, thus providing ...

Cited by 2 - Related Articles - View as HTML - Web Search

Spreadsheets: Faster, Smarter.

DH Luthy - Journal of Accountancy, 1994 - questia.com

... model graphically without the conventional **row**, **column** or cell ... and results of series or **table** calculations can be ... and unique functions that **expand** and simplify ...

Web Search - BL Direct

[book] PHP and MySQL Web development - group of 9 »

L Welling, L Thomson - 2001 - go.theregister.com

... Grouping and Aggregating Data. Choosing Which **Rows** to Return. ... Getting Information About **Columns** with DESCRIBE. ... Permissions. Table Optimization. Using Indexes. ...

[Cited by 36](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [Library Search](#)

Add Perspective to Spreadsheets

JF Lacher - Journal of Accountancy, 1998 - questia.com

... in exhibit 9. Likewise, drag Division to the **ROW** space and ... it to the right of the Division **column** and the ... still providing a summary at the bottom of the **table** ...

[Web Search](#) - [BL Direct](#)

Development of HDF Browser for the Utilization of EOC Imagery - group of 3

»

HK Seo, SB Ahn, EC Park, KS Hahn, JS Choi, C Kim - Korean Journal of Remote Sensing, 2002 - ieg.or.kr

... data can be viewed as a series of two dimensional arrays **tables**. The user may select which dimension is the **columns**, which is the **rows**, and which is the ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

Escalante: an environment for the rapid construction of visual language applications - group of 3 »

JD McWhirter, GJ Nutt - Visual Languages, 1994. Proceedings., IEEE Symposium on, 1994 - ieeexplore.ieee.org

... ci 30 Verdi 1 50 Turthg 1 70 **Table** 1/2 ... classes that allow one to group and layout collections of ... attribute values within a visual element and **attributes** of the ...

[Cited by 26](#) - [Related Articles](#) - [Web Search](#)

Hierarchical structure editor for web sites - group of 2 »

S Arora, G Arora, R Lakshminarayan, G Brown, M ... - US Patent 5,911,145, 1999 - Google Patents

... First Child Number Current Layout Stacked Flag ... parent (and all children) to False **Collapse** a branch Fig. ... parent (and all children) to True **Expand** a branch Fig. ...

[Cited by 38](#) - [Related Articles](#) - [Web Search](#)

Web Page Filtering and Re-Authoring for Mobile Users - group of 10 »

T Bickmore, A Girgensohn, JW Sullivan - The Computer Journal, 1999 - Br Computer Soc
... which the user can dynamically **expand** and **collapse** ... uses heuristics to determine when

table columns are being ... shows a nested **table**, marking **tables** with thicker ...

[Cited by 46](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Apparatus and method for implementing visual animation illustrating results of interactive editing ... - group of 3 »

TP Moran, P Chiu, W Van Melle, G Kurtenbach - US Patent 5,880,743, 1999 - Google Patents

... 95 VISUAL DISPLAY OF PROCESS OF CHANGE (ANIMATION) FIG. 6 1 r **TABLE LOOK UP** -90

5,880,743 -86 ERROR MESSAGE DISPLAYED IDENTIFY INFO DEFINED BY GESTURE ...

[Cited by 12](#) - [Related Articles](#) - [Web Search](#)

Visualizing multi-dimensional clusters, trends, and outliers using star coordinates - group of 3 »

E Kandogan - Proceedings of the seventh ACM SIGKDD international ..., 2001 - portal.acm.org

... Matrices [2], which allows users to rearrange **rows** and **columns** to discover ... is also a natural way to interact with hierarchically **expanding** and **collapsing** ...

[Cited by 58 - Related Articles - Web Search](#)

JOSIT user manual

MA Chisholm - 2001 - downloads.openchannelsoftware.org

... One of the accessible **attributes** every Swing widget has is ... a list of open windows, in the **format** described in ... keyboard, that are not listed in the above **table**. ...

[Cited by 1 - Related Articles - View as HTML - Web Search](#)

Visualization exploration and encapsulation via a spreadsheet-like interface - group of 13 »

TJ Jankun-Kelly, KL Ma - IEEE Transactions on Visualization and Computer Graphics, 2001 - doi.ieeecomputersociety.org

... Using volume visualization as an example, the **rows** could display color maps while the **columns** show opacity ... by rendered glyphs in the **table** headers (Fig ...

[Cited by 32 - Related Articles - Web Search](#)

Representations of world coordinates in FITS - group of 19 »

EW Greisen, MR Calabretta - Arxiv preprint astro-ph/0207407, 2002 - arxiv.org

... 0 indicates a world coordinate of integral type, then **row** i 0 of ... for example, **table** lookups require the names of the **table** extension and the **columns** to be ...

[Cited by 54 - Related Articles - View as HTML - Web Search - BL Direct](#)

Homogeneity of Subpopulations and Simpson's Paradox - group of 2 »

Y Mittal - Journal of the American Statistical Association, 1991 - JSTOR

... 3.1), and hence the subpopulations are **row** homogeneous ... of the argument, they must be **column** homogeneous as ... of Multidimensional Contingency **Tables**," Journal of ...

[Cited by 19 - Related Articles - Web Search](#)

Framework for Modeling Dependencies in Collaborative Engineering Processes

H Park, MR Cutkosky - Research in Engineering Design, 1999 - Springer

... Thirdly the model offers a mechanism for improving a process through **row** and **column** operations ... of the DR elements and their semantics is provided in **Table** 1 ...

[Cited by 41 - Related Articles - Web Search - BL Direct](#)

The hybrid field-programmable architecture - group of 6 »

A Kaviani, S Brown - Design & Test of Computers, IEEE, 1999 - ieeexplore.ieee.org

... Since we are using 4-LUTs, it is reasonable to base the PALB on the K = 4 **row**, and for reasons dis ... The data in the "filtered" **columns** in **Table** 1 jus ...

[Cited by 17 - Related Articles - Web Search - BL Direct](#)

A Spreadsheet Interface for Visualization Exploration - group of 13 »

TJ Jankun-Kelly, KL Ma - Proc. Visualization, 2000 - doi.ieeecomputersociety.org

... flow, re- spectively) of a turbulent flow simulation data set together; the new maps are automatically added to the **table**. ... **row** and **column** parameters; it ...

[Cited by 8 - Related Articles - Web Search](#)

Digestor: Device-Independent Access to the World Wide Web - group of 8 »

TW Bickmore, BN Schilit - WWW6 / Computer Networks, 1997 - decweb.ethz.ch

... technique, in which the user can dynamically **expand** and **collapse** ... **tables**, applets, shockwave plug-ins, etc.); folding of **table** **rows** or **columns**; re-formatting ...

[Cited by 171 - Related Articles - Cached - Web Search](#)

[BOOK] **The Maple Book - group of 3 »**

F Garvan - 2001 - books.google.com
... 135 7.14.1 Packages as **tables** 135 ... 201 9.7 Systems of linear equations 201 9.8 Row space, **column** space, and nullspace 205 9.9 Eigenvectors and diagonalization ...
[Cited by 19](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

More on Contingency Table Analysis, Decision Making Criteria, and the Use of Log Linear Models

GA Clark - American Antiquity, 1976 - JSTOR
... **Columns** correspond to sites (6); blocks correspond to distance (2); **rows** correspond to all ... The Fienberg approach was applied first to the **table**. ...
[Web Search](#)

Web-based Interactive Database Query Builder - group of 2 »

R Morgan - 2002 - cs.bris.ac.uk
... Conditions specified on distinct **rows** are connected by ... the template (or templates) under the appropriate **columns**. ... query (figure 6). Joining **tables** is achieved ...
[Related Articles](#) - [View as HTML](#) - [Web Search](#)

Qualitative housing choice modelling: Decision plan nets versus decision tables

F Witlox - Journal of Housing and the Built Environment, 1995 - Springer
... **Table** contraction is one possibility, **row** order optimization ... **Table** contraction (or rule **collapsing**) refers to the minimization of the number of **columns** for a ...
[Cited by 5](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Method and apparatus for performing data collection, interpretation and analysis, in an information ... - group of 3 »

RD Ainsbury, HK Al Hussein, MC Hinnant, MM Lahham, ... - US Patent 6,078,924, 2000 - Google Patents
... Speci fy Tool Specify Case Specify Format 222-S W y ^226 \ 223- S| j N FIG. 4 Page 7. ... unique identifiers and creates a routing **table** which is used ...
[Cited by 66](#) - [Related Articles](#) - [Web Search](#)

Power browser: efficient Web browsing for PDAs - group of 9 »

O Buyukkokten, H Garcia-Molina, A Paepcke, T ... - Proceedings of the SIGCHI conference on Human factors in ..., 2000 - portal.acm.org
... Expanding a node of the tree results in a request to the Power Browser proxy. ...
Table rows and **columns** are folded into text blocks as well. ...
[Cited by 177](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

A Basis for Scaling Qualitative Data

L Guttman - American Sociological Review, 1944 - JSTOR
... used in practical procedures are simply devices for shifting **rows** and **columns** to find a ... A tetrachoric coefficient for the four-fold **table** above, assuming a ...
[Cited by 148](#) - [Related Articles](#) - [Web Search](#)

Modeling the Data Warehouse and Data Mart

P Winsberg - Info DB Articles, 1996 - evaltech.com
... For this rea- son, it is often a good idea to convert **column**-wise designs to **row**-wise in the warehouse model. ... Try to organize **columns** in **tables** according to ...
[Cited by 2](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[BOOK] Modern applied statistics with S - group of 11 »

WN Venables, BD Ripley - 2002 - massey.ac.nz

... 27 2.4 Tables and Cross-Classification attach(hills) Make **columns** available by name. plot(dist, time) identify(dist, time, **row.names(hills)**) ...
[Cited by 606](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

[A unified relational approach to grid information services - group of 23 »](#)
P Dinda, B Plale - Grid Forum Informational Draft GWD-GIS-012-1, 2002 - cs.nwu.edu
... for type extensibility— we can add new **columns** to tables), the types are ... above already
has some support for this, in that **rows** or **columns** have explicit ...
[Cited by 40](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Database graphical user interface with outline view - group of 2 »](#)
R Webster, B Reichle - US Patent 5,874,953, 1999 - Google Patents
... Each intersection of a topic **row** and user identifying **column** ... may be scrolled on a **column** by **column** basis, 30 or ... fifth GUI 292 may also have **expand** and **collapse** ...
[Cited by 9](#) - [Related Articles](#) - [Web Search](#)

[\[book\] Applied Dimensional Analysis and Modeling - group of 4 »](#)
T Szirtes - 1997 - books.google.com
... C, One **Row** is a Multiple of Another **Row** 255 10.6 ... of Selected Theorems and Equations
770 8 Blank Modeling Data Table 775 ... 12/4 Critical axial load on **columns** 330 ...
[Cited by 54](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

[Twelve-row punched-card code for information interchange](#)
S Gorn - Communications of the ACM, 1966 - portal.acm.org
... **Table** D2 shows this translation ... **column**, rather than by recognition of the entire hole-pattern in that **column**. ... A numeric punch is a punch in **rows** 1, 2.3, 4, 5, 6 ...
[Web Search](#)

[Database graphical user interface with tabbed user view - group of 2 »](#)
N Lerissa, D McCusker, W March - US Patent 5,949,413, 1999 - Google Patents
... Each intersection of a topic **row** and user identifying **column** ... may be scrolled on a **column** by **column** basis, or on ... fifth GUI 292 may also have **expand** and **collapse** ...
[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

[A test chip design for detecting thin-film cracking in integrated circuits - group of 4 »](#)
SA Gee, MR Johnson, KL Chen - Components, Packaging, and Manufacturing Technology, Part B: ..., 1995 - ieeexplore.ieee.org
... the test software can be used to add or delete specific **rows** or **columns** from the ...
This data was compiled from leg #1 of **Table I** (see the Experimental Summary ...
[Cited by 9](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Graphical user interface and method for displaying hierarchically structured information - group of 2 »](#)
DP Giles, LA Tweedie, GJ Jolliffe, J Coward, A ... - US Patent 6,437,812, 2002 - Google Patents
... This is done by **collapsing** or **expanding** parts of the hierarchical representation. 48 Claims, 11 Drawing Sheets Page 2. File prp ID ...
[Related Articles](#) - [Web Search](#)

[\[book\] The Complete Idiot's Guide to Microsoft Office XP](#)
J Kraynak - 2001 - books.google.com
... 57 Make your text look pretty. 6 Aligning Your Text with **Columns** and **Tables**

73 Arrange your text in neat little **rows** and **columns** ...

[Web Search](#) - [Library Search](#)

The separation and evaluation of personal and environmental contributions to behavior by the person- ... - group of 2 »

RB Cattell - Multivariate Behavioral Research, 1980 - Lawrence Erlbaum

... of course, the seven **row** and **column** totals, n., n., n., n., etc., derivable from them. **Table 1 A Test-Situation Facet Matrix for One Person ...**

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

A spreadsheet(Lotus 1-2-3) based technique for analysing storm suspended sediment data with ... - group of 2 »

T Greer, K Bidin, I Douglas - Earth Surface Processes and Landforms, 1998 - doi.wiley.com ... is then copied to the rest of the **column H** cells. ... example of the spreadsheet calculation is shown in **Table IV**. ... Finally, **row 6** is to convert all the formulae to ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

STORM: A Statistical Object Representation Model - group of 10 »

M Rafanelli, A Shoshani - Data Engineering Bulletin, 1990 - lbl.gov

... two hierarchies for the **rows** and **columns**. The apparent conclusion is that a proper model should retain the concept ... \$1000, **tables** - \$500. ...

[Cited by 69](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Star Coordinates: A Multi-dimensional Visualization Technique with Uniform Treatment of Dimensions - group of 3 »

E Kandogan - IEEE Symposium on Information Visualization 2000, 2000 - people.cs.vt.edu ... 4,5], Worlds within Worlds [6], **Table Lens** [7 ... PM], which allows users to rearrange **rows** and **columns** ... to examine the combined effects of multiple **columns** at once. ...

[Cited by 17](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Coset enumeration strategies - group of 4 »

G Havas - Arxiv preprint math.GR/9406202, 1994 - arxiv.org

... array was physically stored in logical **row** major order ... generator or inverse corresponding to **column j** on ... Felsch makes relatively fewer coset **table** accesses and ...

[Cited by 26](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

MEDIATOR: TOWARDS A NEGOTIATION SUPPORT SYSTEM - group of 4

»

M Jarke, MT Jelassi, MF Shakun - 1985 - dspace.nyu.edu

... involves players adding additional **rows** to their respective targets, ... **Table 1** by inserting **columns** u1 and ui2 for i=1,2,3,4, ie, 8 **columns** ...

[Cited by 69](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Database graphical user interface with user frequency view - group of 2 »

US Patent 6,052,121, 2000 - freepatentsonline.com

... The **rows** of the two-dimensional **table** are either database records or file system entities, and the **columns** are, respectively, either database fields ...

[Cited by 5](#) - [Related Articles](#) - [Cached](#) - [Web Search](#)

Visual knowledge engineering - group of 10 »

M Eisenstadt, J Domingue, T Rajan, E Motta - Software Engineering, IEEE Transactions on, 1990 - ieeexplore.ieee.org

... which is supported by the **Tables** system, as ... or time according to specific **attributes**), and abstraction ... sacrifices fidelity to the geographical layout in order ...

[Cited by 38 - Related Articles - Web Search](#)

[Database graphical user interface with calendar view - group of 2 »](#)

R Webster, N Lerissa, D Magid, B Holt, N Durrant, ... - US Patent 5,898,431, 1999 - Google Patents

... [57] ABSTRACT A method and apparatus summarizes information in an easy and user-friendly

format in a database that stores topics and responses to those topics. ...

[Cited by 9 - Related Articles - Web Search](#)

[Combining palettes on a computer display - group of 2 »](#)

DR Lazarony Jr, JK Ferraiolo, MJ Foster, NJ Nan - US Patent 5,870,091, 1999 - Google Patents

... TO 57 FIG. 13B 69- »Bring tab to foreground •Toggle expand/ collapse state of palette

•Reposition any palettes docked below this palette 54B Do Nothing ...

[Cited by 10 - Related Articles - Web Search](#)

[Class, Mobility and Merit: The Experience of Two British Birth Cohorts - group of 5 »](#)

R Breen, JH Goldthorpe - European Sociological Review, 2001 - Oxford Univ Press

... on this item. The figures in the sixth row are for ... Thirdly, Tables 2 and 3 reveal the effects of ... structure. The differences in the column marginal distributions ...

[Cited by 55 - Related Articles - Web Search](#)

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Relevance scale

1 [Toward a logical/physical theory of spreadsheet modeling](#)

Tomás Isakowitz, Shimon Schocken, Henry C. Lucas

January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.76 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In spite of the increasing sophistication and power of commercial spreadsheet packages, we still lack a formal theory or a methodology to support the construction and maintenance of spreadsheet models. Using a dual logical/physical perspective, we identify four principal components that characterize any spread sheet model: schema, data, editorial, and binding. We present a factoring algorithm for identifying and extracting these components ...

Keywords: model management

2 [Implementation of an APL-based spreadsheet manager](#)

Tom Puckett

January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition APL '87**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the implementation of the STSC Spreadsheet Manager for users of STSC's APL*PLUS® PC System. The discussion is primarily from the standpoint of the product's internal workings. Important aspects are selection and interfacing of the languages to be used in the implementation (APL, C, and assembler), compatibility with Lotus® data structures, mappings between data in the APL and Lotus environments, manipulation of data in a spreadsheet context, and separation of fu ...

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Demonstrational and constraint-based techniques for pictorially specifying application objects and behaviors

Brad Vander Zanden, Brad A. Myers

December 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available: [pdf\(3.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Lapidary interface design tool is a demonstrational system that allows the graphics and run-time behaviors that go inside an application window to be specified pictorially. In particular, Lapidary allows the designer to draw example pictures of application-specific graphical objects that the end user will manipulate (such as boxes, arrows, or elements of a list), the feedback that shows which objects are selected (such as small boxes on the sides and corners of an objec ...

Keywords: direct manipulation, interaction, interaction techniques, object-oriented design, programming by example, user interface management systems

5 Customizing information capture and access

Daniela Rus, Devika Subramanian

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

6 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors maximize parallelism and

memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

7 Structure of mathematical programming systems



WM. Orchard Hays

January 1968 **Proceedings of the 1968 23rd ACM national conference**

Publisher: ACM Press

Full text available: [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A mathematical programming system (MPS), as now implemented on third generation computers, constitutes four separate subject areas: 1. Algorithmic and procedural capabilities 2. Problem formulation and solution techniques 3. Programming languages 4. System structure and use Each of these areas involves extensive considerations and we can not do justice to any of them in the time available. Since problem formulation and solution techniqu ...

8 A retrospective on the Dorado, a high-performance personal computer



Kenneth A. Pier

June 1983 **ACM SIGARCH Computer Architecture News , Proceedings of the 10th annual international symposium on Computer architecture ISCA '83**, Volume 11 Issue 3

Publisher: IEEE Computer Society Press, ACM Press

Full text available: [pdf\(2.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In late 1975, members of the Xerox Palo Alto Research Center embarked on the specification of a high-performance successor to the Alto personal minicomputer, in use since 1973. After four years, the resulting machine, called the Dorado, was in use within the research community at PARC. This paper begins with an overview of the design goals, architecture, and implementation of the Dorado and then provides a retrospective view and critique of the Dorado project as a whole. The major machine a ...

9 Experience with access functions in an experimental compiler



Frederic N. Ris

September 1984 **ACM SIGMICRO Newsletter**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes an access function subsystem embedded in portions of an experimental microcode compiler which was built and used during 1973--6 using the IBM PL/I optimizing compiler under VM/370 and CMS. The use of the access function subsystem in this context was itself an experiment, performed by a group for all of whom PL/I was a new language and VM/370 a new operating system. The implementation of the subsystem was done strictly within the confines of the PL/I language. The basic objec ...

10 Technical reports



SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: [pdf\(5.28 MB\)](#) Additional Information: [full citation](#)

Workflow in different styles of virtual enterprise

Roger Tagg

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

Publisher: IEEE Computer Society, IEEE Computer Press

Full text available: [!\[\]\(f024d36410e36011059c73f7d7908105_img.jpg\) pdf\(715.49 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

[Publisher Site](#)

Because of the many forms a Virtual Enterprise (VE) can take, there is no single model of what type of approach to workflow management is most appropriate. This paper is based on an analysis of the different types of business practice that lead to the formation of VEs. A number of different workflow scenarios are depicted, and four specific issues are then discussed. The first is the recognition of the different life cycle stages of a Virtual Enterprise. The second is the problem of workflow cas ...

12 Visualizing digital library search results with categorical and hierarchical axes

 Ben Shneiderman, David Feldman, Anne Rose, Xavier Ferré Grau

June 2000 **Proceedings of the fifth ACM conference on Digital libraries DL '00**

Publisher: ACM Press

Full text available: [!\[\]\(528617bae5d4722c747678f5759aceb1_img.jpg\) pdf\(682.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital library search results are usually shown as a textual list, with 10-20 items per page. Viewing several thousand search results at once on a two-dimensional display with continuous variables is a promising alternative. Since these displays can overwhelm some users, we created a simplified two-dimensional display that uses categorical and hierarchical axes, called hieraxes. Users appreciate the meaningful and limited number of terms on each hieraxis. At each grid point ...

Keywords: categorical axes, digital libraries, graphical user interfaces, hierarchy, hieraxes, information visualization

13 Building flexible AGV and ASRS system models for facility design phase applications

Ronald L. Webster, David F. Foster

December 1990 **Proceedings of the 22nd conference on Winter simulation WSC' 90**

Publisher: IEEE Press

Full text available: [!\[\]\(c62fd5e60374435f1042392f36bb95e1_img.jpg\) pdf\(836.01 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

14 Spatial interpretation of domain objects integrated into a freeform electronic whiteboard



Thomas P. Moran, William van Melle, Patrick Chiu

November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology UIST '98**

Publisher: ACM Press

Full text available: [!\[\]\(622978af0987ec07858cbbcdb483152f_img.jpg\) pdf\(130.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: customization, freeform interaction, gestural interfaces user interface design, implicit stucture, informal systems, list structures, metting support tools, pen-based systems, recognition-based systems, tailorability, witeboard metaphor

15 ALGOL: ALGOL bulletin no. 28

 F. G. Duncan

November 1968 **ACM SIGPLAN Notices**, Volume 3 Issue 11

Publisher: ACM Press

Full text available:  pdf(3.41 MB) Additional Information: [full citation](#)



16 A tour through cedar

Warren Teitelman

March 1984 **Proceedings of the 7th international conference on Software engineering ICSE '84**

Publisher: IEEE Press

Full text available:  pdf(2.08 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



17 Nearly optimal algorithms and bounds for multilayer channel routing

 Bonnie Berger, Martin Brady, Donna Brown, Tom Leighton

March 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



This paper presents algorithms for routing channels with $L \geq 2$ layers. For the unit vertical overlap model, we describe a two-layer channel routing algorithm that uses at most $d+Od$ tracks to route two-terminal net problems and $2d+od$ tracks to route mult ...

Keywords: VLSI layout, channel routing, multilayer routing

18 How electronic outlining can help you create online materials

 Jonathan Price

October 1997 **Proceedings of the 15th annual international conference on Computer documentation SIGDOC '97**

Publisher: ACM Press

Full text available:  pdf(1.37 MB) Additional Information: [full citation](#), [references](#), [index terms](#)



19 Automatic data layout for distributed-memory machines

 Ken Kennedy, Ulrich Kremer

July 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 4

Publisher: ACM Press

Full text available:  pdf(633.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



The goal of languages like Fortran D or High Performance Fortran (HPF) is to provide a simple yet efficient machine-independent parallel programming model. After the algorithm selection, the data layout choice is the key intellectual challenge in writing an efficient program in such languages. The performance of a data layout depends on the target compilation system, the target machine, the problem size, and the number of available processors. This makes the choice of a good layout extremel ...

Keywords: high performance Fortran

20 [A spreadsheet interface for visualization exploration](#)

T. J. Jankun-Kelly, Kwan-Liu Ma

October 2000 **Proceedings of the conference on Visualization '00 VIS '00**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(547.98 KB\)](#) Additional Information: [full citation](#), [citing](#), [index terms](#)



Keywords: knowledge representation, scientific visualization, spreadsheets, user interfaces, visualization systems, volume rendering

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Full text available:  pdf(2.19 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

24 Automatic parsing for content analysis

 Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

Publisher: ACM Press

Full text available:  pdf(4.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

25 Introductory tutorials: Spreadsheet simulation

Andrew F. Seila

December 2001 **Proceedings of the 33nd conference on Winter simulation WSC '01**

Publisher: IEEE Computer Society

Full text available:  pdf(91.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

"Spreadsheet simulation" refers to the use of a spreadsheet as a platform for representing simulation models and performing the simulation experiment. This tutorial explains the reasons for using this platform for simulation, discusses why this is frequently an efficient way to build simulation models and execute them, discusses how to setup a spreadsheet simulation, and finally examines when a spreadsheet is not an appropriate platform for simulation.

26 Twelve-row punched-card code for information interchange

 S. Gorn

June 1966 **Communications of the ACM**, Volume 9 Issue 6

Publisher: ACM Press

Full text available:  pdf(1.21 MB)

Additional Information: [full citation](#), [references](#)

27 Proceedings of the SIGNUM conference on the programming environment for

 development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  pdf(5.02 MB)

Additional Information: [full citation](#)

28 Navigating hierarchically clustered networks through fisheye and full-zoom methods

 Doug Schaffer, Zhengping Zuo, Saul Greenberg, Lyn Bartram, John Dill, Shelli Dubs, Mark Roseman

June 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 2

Publisher: ACM Press

Additional Information:

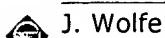
Full text available: [A.pdf\(305.99 KB\)](#)[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many information structures are represented as two-dimensional networks (connected graphs) of links and nodes. Because these network tend to be large and quite complex, people often prefer to view part or all of the network at varying levels of detail.

Hierarchical clustering provides a framework for viewing the network at different levels of detail by superimposing a hierarchy on it. Nodes are grouped into clusters, and clusters are themselves placed into other clusters. Us ...

Keywords: data acquisition, fisheye views, hierarchically clustered graphs, information visualization, supervisory control

29 Ad Hoc Query: a reusable database access capability



J. Wolfe

July 1994 **Proceedings of the eleventh annual Washington Ada symposium & summer ACM SIGAda meeting on Ada WADAS '94**

Publisher: ACM Press

Full text available: [A.pdf\(1.06 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)

30 OLAP and statistical databases: similarities and differences



Arie Shoshani

May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems PODS '97**

Publisher: ACM Press

Full text available: [A.pdf\(1.66 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

31 To table or not to table: a hypertabular answer



Giuseppe Santucci, Laura Tarantino

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: [A.pdf\(518.86 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Suitable data set organizers are necessary to help users assimilating information retrieved from a database. In this paper we present (1) a general hypertextual framework for the interaction with tables, and (2) a specialization of the framework in order to present in hypertextual format the results of queries expressed in terms of a visual semantic query language.

32 Data access for the masses through OLE DB



José A. Blakeley

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: [A.pdf\(1.24 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of OLE DB, a set of interfaces being developed at Microsoft whose goal is to enable applications to have uniform access to data stored in DBMS and non-DBMS information containers. Applications will be able to take advantage of the benefits of database technology without having to transfer data from its place of origin to a DBMS. Our approach consists of defining an open, extensible Collection of interfaces that factor and encapsulate orthogonal, reusable portions ...

33 Analysis of techniques to improve protocol processing latency

 David Mosberger, Larry L. Peterson, Patrick G. Bridges, Sean O'Malley

August 1996 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96**, Volume 26 Issue 4

Publisher: ACM Press

Full text available:  pdf(134.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes several techniques designed to improve protocol latency, and reports on their effectiveness when measured on a modern RISC machine employing the DEC Alpha processor. We found that the memory system---which has long been known to dominate network throughput---is also a key factor in protocol latency. As a result, improving instruction cache effectiveness can greatly reduce protocol processing overheads. An important metric in this context is the *memory cycles per instructi* ...

34 APSS: An automatic PLA synthesis system

M. W. Stebnisky, M. J. McGinnis, J. C. Werbickas, R. N. Putatunda, A. Feller

June 1983 **Proceedings of the 20th conference on Design automation DAC '83**

Publisher: IEEE Press

Full text available:  pdf(611.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An integrated, fully automatic software capability that combines Boolean logic translation, Boolean minimization, PLA folding, PLA topology generation, and automatic PLA subchip interfacing to the MP2D standard cell automatic placement and routing program in a single, modular software package is described. Written in ANSI standard FORTRAN, APSS permits the designer to input either arbitrarily formed Boolean equations or a truth table, and to receive a complete MP2D-compatible PLA subchip la ...

35 Heuristics, Experimental Subjects, and Treatment Evaluation in Bigraph Crossing

 Minimization

Matthias Stallmann, Franc Brglez, Debabrata Ghosh

December 2001 **Journal of Experimental Algorithmics (JEA)**, Volume 6

Publisher: ACM Press

Full text available:  pdf(858.74 KB)  ps(3.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The bigraph crossing problem; embedding the two node sets of a bipartite graph along two parallel lines so that edge crossings are minimized, has applications to circuit layout and graph drawing. Experimental results for several previously known and two new heuristics suggest continued exploration of the problem, particularly sparse instances. We emphasize careful design of experimental subject classes and present novel views of the results. All source code, data, and scripts are available on-li ...

Keywords: crossing number, design of experiments, graph drawing, graph embedding, graph equivalence classes, layout

36 Compiling parallel code for sparse matrix applications

 Vladimir Kotlyar, Keshav Pingali, Paul Stodghill

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '97**

Publisher: ACM Press

Full text available:  pdf(161.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We have developed a framework based on relational algebra for compiling efficient sparse matrix code from dense DO-ANY loops and a specification of the representation of the sparse matrix. In this paper, we show how this framework can be used to generate parallel code, and present experimental data that demonstrates that the code generated by our *Bernoulli* compiler achieves performance competitive with that of hand-written codes for important computational kernels.

Keywords: parallelizing compilers, sparse matrix computations

37 Techniques for the translation of MATLAB programs into Fortran 90

 Luiz De Rose, David Padua

March 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 21 Issue 2

Publisher: ACM Press

Full text available:  pdf(467.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article describes the main techniques developed for FALCON's MATLAB-to-Fortran 90 compiler. FALCON is a programming environment for the development of high-performance scientific programs. It combines static and dynamic inference methods to translate MATLAB programs into Fortran 90. The static inference is supported with advanced value propagation techniques and symbolic algorithms for subscript analysis. Experiments show that FALCON's MATLAB translator can generate code that performs ...

Keywords: MATLAB, array language compilation, inference

38 The white dwarf: a high-performance application-specific processor

 A. Wolfe, M. Breternitz, C. Stephens, A. L. Ting, D. B. Kirk, R. P. Bianchini, J. P. Shen
May 1988 **ACM SIGARCH Computer Architecture News , Proceedings of the 15th Annual International Symposium on Computer architecture ISCA '88**,

Volume 16 Issue 2

Publisher: IEEE Computer Society Press, ACM Press

Full text available:  pdf(1.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the design and implementation of a high-performance special-purpose processor, called The White Dwarf, for accelerating finite element analysis algorithms. The White Dwarf CPU contains two Am29325 32-bit floating-point processors and one Am29332 32-bit ALU, and employs a wide-instruction word architecture in which the application algorithm is directly implemented in microcode. The entire system is VME-bus compatible and interfaces with a SUN 31160 host. The syste ...

39 Conference abstracts

 January 1977 **Proceedings of the 5th annual ACM computer science conference CSC '77**

Publisher: ACM Press

Full text available:  pdf(3.14 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

- 40** Hypertext engineering: practical methods for creating a compact disk encyclopedia
R. J. Glushko, Mark D. Weaver, Thomas A. Coonan, Janet E. Lincoln
January 2000 **Proceedings of the ACM conference on Document processing systems**
DOCPROCS '88

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L1	6538	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or catalog\$3 or list\$1) and ((row\$1 or column\$1) with (expand\$3 or compress\$3 or contract\$3 or merg\$3 or abbreviat\$3 or summar\$5 or consolodat\$3))	US-PGPUB	OR	OFF	2007/02/08 11:43
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EAST Search History

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EAST Search History

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S12	24	((707/5).CCLS.) and (interactiv\$3 same compar\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/05 14:00
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EAST Search History

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S23	64	((715/509).CCLS.) and group\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 10:57

EAST Search History

S24	58	((715/509).CCLS.) and group\$3) and table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:06
S25	1006	(705/26).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:07
S26	76	((705/26).CCLS.) and grouping	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:15
S27	0	((705/26).CCLS.) and ((consolodat\$3 or expand\$3) near column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:15
S28	1	((705/26).CCLS.) and ((consolodat\$3 or expand\$3) near5 column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:16
S29	485	((705/26).CCLS.) and (table\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:16
S30	0	((705/26).CCLS.) and (table\$1 adj manipulat\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:16
S31	3	((705/26).CCLS.) and (table\$1 adj sort\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:17
S32	330	manipulat\$3 adj table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 11:17
S33	16	US-6169992-.DID. OR US-6032145-.DID. OR US-5897639-.DID. OR US-6014639-.DID. OR US-5740425-.DID. OR US-5832459-.DID. OR US-6236985-.DID. OR US-6131088-.DID.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:05

EAST Search History

S34	7	(US-6169992-\$ DID. OR US-6032145-\$ DID. OR US-5897639-\$ DID. OR US-6014639-\$ DID. OR US-5740425-\$ DID. OR US-5832459-\$ DID. OR US-6236985-\$ DID. OR US-6131088-\$ DID.) and table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:05
S35	5	((US-6169992-\$ DID. OR US-6032145-\$ DID. OR US-5897639-\$ DID. OR US-6014639-\$ DID. OR US-5740425-\$ DID. OR US-5832459-\$ DID. OR US-6236985-\$ DID. OR US-6131088-\$ DID.) and table\$1) and (combin\$3 or merg\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:06
S36	1	"5897622".PN.	USPAT	OR	OFF	2004/10/26 10:07
S37	1	"5799157".PN.	USPAT	OR	OFF	2004/10/26 10:07
S38	1	"5715444".PN.	USPAT	OR	OFF	2004/10/26 10:07
S39	1	"5630125".PN.	USPAT	OR	OFF	2004/10/26 10:07
S40	1	"5319542".PN.	USPAT	OR	OFF	2004/10/26 10:08
S41	1	"5231566".PN.	USPAT	OR	OFF	2004/10/26 10:08
S42	1	"5206949".PN.	USPAT	OR	OFF	2004/10/26 10:09
S43	1	"4992940".PN.	USPAT	OR	OFF	2004/10/26 10:08
S44	1457	(707/4).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:09
S45	1115	((707/4).CCLS.) and table\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:32
S46	1	"4879648".PN.	USPAT	OR	OFF	2004/10/26 10:11
S47	1	"4947028".PN.	USPAT	OR	OFF	2004/10/26 10:11
S48	1	"4984155".PN.	USPAT	OR	OFF	2004/10/26 10:11
S49	1	"4992940".PN.	USPAT	OR	OFF	2004/10/26 10:11
S50	10305	((spread adj sheet\$1) or spreadsheet\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:33
S51	48	(((spread adj sheet\$1) or spreadsheet\$1)) and (sort\$3 adj (row\$1 or column\$1))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:34

EAST Search History

S52	3	((((spread adj sheet\$1) or spreadsheet\$1)) and (sort\$3 adj (row\$1 or column\$1))) and (remov\$3 adj (row\$1 or column\$1))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:49
S53	69586	catalog\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 10:50
S54	13	catalog\$1 near manipulat\$5	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:12
S55	4380	(group\$3 or merg\$3) near row\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:13
S56	2665	(group\$3 or merg\$3) adj row\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:13
S57	2756	(group\$3 or merg\$3 or expand\$3) adj row\$1	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:13
S58	431	(group\$3 or merg\$3 or expand\$3) adj (row\$1 and column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/26 11:14
S59	592	table\$1 near manipulat\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 09:36
S60	9153	table\$1 near display\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 09:37
S61	1232	(table\$1 near display\$3) and (row\$1 and column\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 09:44
S62	36	((table\$1 near display\$3) and (row\$1 and column\$1)) and ((merg\$3 or combin\$3) near (column\$1 or row\$1 or cell\$1))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 09:59
S63	112	((table\$1 near display\$3) and (row\$1 and column\$1)) and catalog\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 10:33

EAST Search History

S64	109	(715/509).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 10:33
S65	52	((715/509).CCLS.) and (merg\$3 or consolidat\$3 or combin\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/04 10:34
S66	94	("6023683" "6055516" "6292830" "6334145" "5745891" "6397219" "6466940" "5297030" "5715444" "5895463" "5983219" "6032145" "6275821" "6321224" "6324534" "6327588" "6332135" "6336105" "6338050" "6484165" "6505172" "6584462" "5408333" "6065012" "5857185" "6055515" "5469206" "5948058" "5694616" "6450407" "5960411" "6240397" "5754938" "5754939" "5835087" "6029195" "6460036" "5359729" "6327593" "6523040" "6101485" "5832502" "6014639" "6373012" "5515488" "4303989" "5812989" "5963207" "6154213" "6728696").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:22
S67	93	S66 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:23
S68	42	S67 and (table\$1 or column\$1 or row\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:24
S69	34	S68 and (database\$1 or (data adj base\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:33
S70	32	S69 and (combin\$3 or group\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:41
S71	1	S69 and ((combin\$3 or group\$3) near (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:35

EAST Search History

S72	6	S69 and ((combin\$3 or group\$3) near3 (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:36
S73	7	S69 and ((combin\$3 or group\$3) near5 (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:42
S74	15	S70 and sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 11:41
S75	2	S73 and sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 12:14
S76	3	"6523040"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 12:15
S77	2	("6523040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S78	8	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 12:15
S79	3	S78 and sort\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 12:16
S80	2	("6523040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S81	0	S80 and (group\$3 near categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35

EAST Search History

S82	0	S80 and (group\$3 near5 categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S83	0	S80 and (group\$3 with categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S84	0	S80 and (group\$3 same categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:35
S85	1	S80 and (group\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:38
S86	1	S80 and (categor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:39
S87	0	S80 and (consolidat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:39
S88	0	S80 and (consol\$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 14:40
S89	0	S80 and (consolidat\$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:08
S90	1151	expand\$3 near (column\$1 or row\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:08
S91	71	(expand\$3 near (column\$1 or row\$1)) same (table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15

EAST Search History

S92	55	S91 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15
S93	126	(expand\$3 near (column\$1 or row\$1)) same (matrix or table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15
S94	91	S93 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15
S95	71	S93 and @ad<="20020131"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/30 15:15
S96	18145	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1)) same sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:17
S97	2261	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1)) near sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:18
S98	936	(table\$1 or spreadsheet\$1 or (spread adj sheet\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:20
S99	10	(table\$1 near (column\$1 or row\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:19
S100	0	(table\$1 with (column\$1 or row\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:19
S101	3	(table\$1 same (column\$1 or row\$1)) near manipulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:19

EAST Search History

S10 2	196	S98 and sort\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/06 16:21
S10 3	23	S98 and (sort\$3 near (row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:49
S10 4	68073	summariz\$3 near (tabl\$3 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:50
S10 5	20	summariz\$3 near (spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:50
S10 6	21	(summariz\$3 or consolidat\$3 or expand\$3) near (table\$1 near (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 08:55
S10 7	216	(summariz\$3 or consolidat\$3 or expand\$3) near5 (table\$1 near (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:07
S10 8	8	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/08 09:03
S10 9	1510	(summariz\$3 or consolidat\$3 or expand\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:17
S11 0	1415	(summariz\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:07
S11 1	20	(consolidat\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09

EAST Search History

S11 2	242	(consolidat\$3) near ((row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09
S11 3	10569	(summariz\$3 or consolidat\$3 or expand\$3) near ((row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09
S11 4	6576	S113 and table\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:09
S11 5	1599	(summariz\$3 or consolidat\$3 or expand\$3) near ((row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:10
S11 6	138	(consolidat\$3) near ((row\$1 or column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:10
S11 7	1577	(summariz\$3 or consolidat\$3 or expand\$3 or merg\$3) near (table\$1 near5 (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:17
S11 8	33	(summariz\$3 or consolidat\$3 or expand\$3 or merg\$3) near (table\$1 near (row\$1 or column\$1 or cell\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 09:17
S11 9	10	requisite.asnm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 08:30
S12 0	21	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5924090" "5995979" "6032145" "6169992" "6230154").PN. OR ("6321224").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:32

EAST Search History

S12 1	22	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5897622").PN. OR ("6032145"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:37
S12 2	16	("5715444" "5740425" "5802524" "5890175" "5897639" "5963953" "5983219" "6023683" "6032145" "6055516" "6072481" "6110213" "6128600" "6154738" "6163774" "6324534").PN. OR ("6871198"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:40
S12 3	13090	(subset\$1 or subsetting or (sub adj set\$1) or par\$3) near (table\$1 or spreadsheet\$1 or (spread adj sheets\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:43
S12 4	533	(subset\$1 or subsetting or (sub adj set\$1)) near (table\$1 or spreadsheet\$1 or (spread adj sheets\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:44
S12 5	306	S124 and database\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:45
S12 6	92	S125 and interactiv\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:45
S12 7	3	S126 and (expand\$3 near (row\$1 or column\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:48
S12 8	1890	expand\$3 near (table\$1 or column\$1 or row\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:48
S12 9	269	S128 and database\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 08:49
S13 0	119	S129 and (subset\$1 or subsetting or subcategory\$3 or (sub adj categor\$3) or (sub adj set\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 09:04
S13 1	3301	database\$1 near display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 09:04
S13 2	79	database\$1 near display\$3 near result\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 09:05
S13 3	32	database\$1 near display\$3 near result\$3	USPAT; USOCR	OR	OFF	2005/05/04 09:05

EAST Search History

S13 4	0	database\$1 near display\$3 near result\$3 near table\$1	USPAT; USOCR	OR	OFF	2005/05/04 09:06
S13 5	0	(database\$1 near display\$3 near result\$3) with (table\$1 or tabular)	USPAT; USOCR	OR	OFF	2005/05/04 09:06
S13 6	1	(database\$1 near display\$3 near result\$3) same (table\$1 or tabular)	USPAT; USOCR	OR	OFF	2005/05/04 09:27
S13 7	2	(database\$1 near display\$3 near result\$3) same (table\$1 or tabular)	USPAT; USOCR	OR	OFF	2005/05/04 09:30
S13 8	2	("6,523,040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 11:11
S13 9	7357	rao.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 09:53
S14 0	522	S139 and database\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 09:54
S14 1	8	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/04 11:03
S14 2	276	((row\$1 or column\$1) near (reduc\$3 or reduct\$3 or collaps\$3)) same (database\$1 or table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/04 11:12
S14 3	4061	(compar\$3 near (column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:30
S14 4	3141	S143 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:30
S14 5	35	(compar\$3 near ((table\$1 or spreadsheet\$1) near (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:32

EAST Search History

S14 6	2	((select\$3 or choos\$3) and compar\$3) near ((table\$1 or spreadsheet\$1) near (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:34
S14 7	42	((select\$3 or choos\$3) and compar\$3) near5 ((table\$1 or spreadsheet\$1) near (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:36
S14 8	1	((select\$3 or choos\$3) and compar\$3) near5 ((table\$1 or spreadsheet\$1) near5 (column\$1 or row\$1))) and (e adj commerc\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:50
S14 9	16	US-6169992-\$ DID. OR US-6032145-\$ DID. OR US-5897639-\$ DID. OR US-6014639-\$ DID. OR US-5740425-\$ DID. OR US-5832459-\$ DID. OR US-6236985-\$ DID. OR US-6131088-\$ DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:50
S15 0	22	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5897622").PN. OR ("6032145"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/09 08:51
S15 1	1627	"I22" and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:52
S15 2	1627	"I22" and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:52
S15 3	17	S150 and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:31
S15 4	17	S153 and (select\$3 or compar\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 08:55

EAST Search History

S15 5	17	S153 and (select\$3 or compar\$3 or expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:31
S15 6	22	("4879648" "4947028" "4984155" "4992940" "5206949" "5231566" "5319542" "5630125" "5715444" "5799157" "5897622").PN. OR ("6032145"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/09 09:31
S15 7	17	S156 and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:34
S15 8	17	S157 and (select\$3 or compar\$3 or expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:33
S15 9	201	quattro adj pro	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:34
S16 0	146	S159 and @ad<="20010131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/09 09:37
S16 1	2	("5317686").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/11 09:19
S16 2	75	("4601003" "4712191" "4899136" "4901221" "5018077" "5033009" "5043916" "5055998" "5065347" "5093907").PN. OR ("5317686").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/11 09:20
S16 3	22	S162 and expand\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/11 10:40
S16 4	2	("6,523,040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/11 10:40

EAST Search History

S16 5	2	("6,523,040").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/12 09:07
S16 6	7063	(online or on-line or electronic) near (catalog\$3 or list\$4 or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:34
S16 7	4267	S166 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:23
S16 8	11101	(online or on-line or electronic or web or html) near (catalog\$3 or list\$4 or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:22
S16 9	6393	S168 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:34
S17 0	1799	S169 and (row\$1 or column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:23
S17 1	876	S169 and (row\$1 and column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:23
S17 2	1	S169 and ((expand\$3 or condens\$3 or compress\$3 or reduc\$3) near (row\$1 and column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:30
S17 3	1	S169 and ((expand\$3 or condens\$3 or compress\$3 or reduc\$3 or compact\$3 or narrow\$3 or widen\$3 or delet\$3) near (row\$1 and column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:24
S17 4	9	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/27 13:25

EAST Search History

S17 5	8	S169 and ((expand\$3 or condens\$3 or compress\$3 or reduc\$3) near5 (row\$1 and column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:30
S17 6	9	("5077668" "5638543" "5867164" "5991754" "6023696" "6205451" "6298342").PN. OR ("6523040").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/27 13:33
S17 7	579	(interactive\$2) with (online or on-line or electronic) with (catalog\$3 or list\$4 or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:36
S17 8	332	S177 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:37
S17 9	346	(interactive\$2) with (online or on-line or electronic) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:39
S18 0	208	S179 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:43
S18 1	4	S180 and ((interactive\$2) with (manipulat\$3 or reorganiz\$3 or sort\$3 or reorder\$3) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:41
S18 2	4	S180 and ((interactive\$2) with (manipulat\$3 or reorganiz\$3 or sort\$3 or reorder\$3) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or listing\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:41
S18 3	185	((interactive\$2) with (manipulat\$3 or reorganiz\$3 or sort\$3 or reorder\$3) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or listing\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 13:59

EAST Search History

S18 4	6	((interactive\$2) with (ecommerce or (electronic adj commerce)) with (catalog\$3 or table\$1 or spreadsheet\$1 or spread-sheet\$1 or listing\$1 or (spread adj sheet\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:32
S18 5	236	(display\$3 and manipulat\$3) with (lists)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:36
S18 6	1	(display\$3 and manipulat\$3) with (lists with (column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:33
S18 7	94	(display\$3 and merg\$3) with (lists)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:41
S18 8	132	(tabular with ((search\$3 or query\$3) with result\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 14:42
S18 9	56	S188 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:05
S19 0	29	S189 and dynamic\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:02
S19 1	3068	(dynamic or interactive) with report\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:02
S19 2	1889	S191 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/27 15:05
S19 3	4794	(online or web or html or interactive) near (table\$1 or grid\$1 or list\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:19

EAST Search History

S19 4	2570	S193 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:19
S19 5	1048	S194 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 6	68990	("83").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 7	175261	("73").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 8	26	S195 and S196	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:20
S19 9	1022	S195 not S198	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:21
S20 0	5	S197 and S199	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:21
S20 1	1017	S199 not S200	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:21
S20 2	117	S201 and commerce	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:28
S20 3	3	S202 not list\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:52

EAST Search History

S20 4	2607	(object adj attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:52
S20 5	259	(object adj attribute) with table\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:52
S20 6	2	((object adj attribute) with table\$1) same commerce	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:52
S20 7	118559	(merg\$3 or combin\$3 or aggregat\$3) with (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:30
S20 8	79696	S207 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:31
S20 9	362	((merg\$3 or combin\$3 or aggregat\$3) with (row\$1 or column\$1 or cell\$1)) with (attribute\$1 or metadata\$1 or meta-data\$1 or (meta adj data\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:31
S21 0	247	S209 and @ad<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:32
S21 1	132	S210 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:31
S21 2	1	S211 and commerce	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 14:34
S21 3	47	S211 and report\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:29

EAST Search History

S21 4	3	concatinat\$3 with (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:30
S21 5	1648	concatenat\$3 with (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:31
S21 6	1126	concatenat\$3 near5 (row\$1 or column\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:31
S21 7	491	S216 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:03
S21 8	68	S217 and ((combin\$3 or group\$3 or concatenat\$3) near (column\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 15:45
S21 9	85	S217 and ((combin\$3 or group\$3 or concatenat\$3) near (row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:02
S22 0	409	(database adj filter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:02
S22 1	121	S220 and @pd<="20020131"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:03
S22 2	35	S221 and (row\$1 and column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/02 16:03
S22 3	432	(715/509,503,505).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41

EAST Search History

S22 4	3947	(707/101,2,7).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 5	1222	(705/27,35).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 6	5502	S223 S224 S225	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 7	689	S226 and (catalog\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/03 15:41
S22 8	142	(table\$1 near (refin\$3 or refinement\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:28
S22 9	61	S228 and (inventor\$3 or catalog\$1 or list\$1 or asset\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:31
S23 0	43	S229 and (interactiv\$3 or dynamic\$4 or active\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:29
S23 1	45	S229 and (interactiv\$3 or interaction\$1 or dynamic\$4 or active\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:36
S23 2	96090	(table\$1 with (inventory\$1 or inventories or catalog\$1 or catalogue\$1 or list\$1 or asset\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:31
S23 3	2	("2002/0116417").URPN.	USPAT	OR	OFF	2006/09/08 15:34

EAST Search History

S23 4	0	interactive adj table adj manipulation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:50
S23 5	122365	(product\$1 or merchandise) with compar\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:51
S23 6	155	((product\$1 or merchandise) with compar\$4) with (catalog\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:52
S23 7	2	((product\$1 or merchandise) with compar\$4) with (interactive\$3 with (catalog\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:55
S23 8	8946	(product\$1 or merchandise) near (catalogue\$1 or catalog\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:55
S23 9	746	S238 and (interactive\$2 and table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:56
S24 0	9	S238 and (interactive\$2 and table\$1 and (combin\$3 with (column\$1 or row\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 15:56
S24 1	495394	(interactive electronic catalog\$1).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 15:01
S24 2	2	("6,324,536").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 15:31
S24 3	2	("5,943,052").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 15:31

EAST Search History

S24 4	46928	group\$3 and row\$1 and column\$1	US-PGPUB	OR	OFF	2006/10/03 13:09
S24 5	30306	S244 and (table\$1 or spreadsheet\$1)	US-PGPUB	OR	OFF	2006/10/03 13:09
S24 6	12504	(group\$3 and expand\$3 and (row\$1 and column\$1))	US-PGPUB	OR	OFF	2006/10/03 13:09
S24 7	1102	(group\$3 and expand\$3 and (row\$1 and column\$1)) and (spreadsheet\$1))	US-PGPUB	OR	OFF	2006/10/03 13:10
S24 8	1011	(group\$3 and expand\$3 and (row\$1 and column\$1)) and (spreadsheet\$1) and table\$1)	US-PGPUB	OR	OFF	2006/10/03 13:10
S24 9	370	(group\$3 and expand\$3 and (row\$1 and column\$1)) and (spreadsheet\$1) and (table\$1 near data\$1))	US-PGPUB	OR	OFF	2006/10/03 13:10
S25 0	291	(group\$3 and expand\$3 and (row\$1 and column\$1)) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1)	US-PGPUB	OR	OFF	2006/10/03 13:10
S25 1	286	(group\$3 and expand\$3 and (row\$1 and column\$1)) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1 and (add\$3 or delet\$3 or remov\$3))	US-PGPUB	OR	OFF	2006/10/03 13:13
S25 2	69	S251 and @ad<="20020131"	US-PGPUB	OR	OFF	2006/10/03 13:13
S25 3	16	S252 and ((electronic\$4 or "e") with commerc\$9)	US-PGPUB	OR	OFF	2006/10/03 13:12
S25 4	833	(715/509,503,505).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:12
S25 5	5755	(707/101,2,7).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:12
S25 6	3924	(705/27,35).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:13
S25 7	10435	S254 S255 S256	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:13

EAST Search History

S25 8	1079	S257 and @ad<="20020131"	US-PGPUB	OR	OFF	2006/10/03 13:13
S25 9	12	S258 and ((group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1 and (add\$3 or delet\$3 or remov\$3)))	US-PGPUB	OR	OFF	2006/10/03 13:14
S26 0	12	S258 and ((group\$3 and expand\$3 and (row\$1 and column\$1) and (spreadsheet\$1) and (table\$1 near data\$1) and cell\$1 and (add\$3 or delet\$3 or remov\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 13:14